

# **APEX Report**

Time Meeting, Feb. 07, 2017

# Experiments in Run 16

16-20	HOM studies	K.Smith	Proposed	(COMPLETE)	
16-19	Systematic error studies in polarization measurements using the H- jet	Anatoli Zelenski		(COMPLETE)	
16-18	Lumi leveling with crossing angle for 250 GeV proton run	C. Liu, V. Ranjbar	Proposed	(COMPLETE)	
16-17	Improved local trajectory control with weighted SVD algorithm for orbit feedback	M. Minty		← ---	
16-16	IR2 aperture study	C. Liu	Proposed	(COMPLETE)	
16-15	Injection of Au78 and Au79 into High Dispersion (LEReC) Lattice	V. Schoefer		(WITHDRAW)	
16-14	Spin Flipper AC Dipole Closure	P. Oddo	Proposed	(WITHDRAW))	
16-13	Align Hadron and Electron Bunches	I. Pinayev	Proposed		
16-12	Commissioning of IR Diagnostics	I. Pinayev	Proposed		
16-11	CeC PoP Fault Studies	I. Pinayev	Proposed		
16-10	Reach Full Power Electron Beam	I. Pinayev	Proposed		
16-09	Propagate Electron Beam to High Power Beam Dump	I. Pinayev	Proposed		
16-08	Ramp development for CeC PoP set-up	I. Pinayev	Proposed	(COMPLETE)	
16-07	Effect of CeC Magnets on RHIC Beam	I. Pinayev	Proposed	(COMPLETE)	
16-06	Luminosity miximization at injection energy	C. Montag	Proposed	(COMPLETE)	
16-05	Detection of small gold beam losses in RHIC arcs	C. Montag	Proposed	(COMPLETE)	
16-04	LEReC high dispersion lattice test	C. Montag		(WITHDRAW)	
16-03	RHIC momentum acceptance measurement	C. Montag		(COMPLETE)	
16-02	Beam-beam study for eRHIC using CEC POP accelerator	Yue Hao	Proposed		← ---
16-01	Accelerating protons through the b3 minimum	C. Montag	Proposed		← ---

# 'Running' Experiments

- 15-15 Spin Flipper P. Oddo, V. Ptitsyn Running
- 15-12 Measurement of transverse beam halo diffusion rates with collimator scans
- Guillaume Robert-Demolaize Running
- 15-08 Optimization of figure of merit in presence of electron clouds  
Minty Running
- 15-07 Stability with electron lens W. Fischer Running
- 15-06 Circumference lengthening V. Ptitsyn Running
- 15-04 Local coupling measurement along the ring Y. Luo Running
- 15-02 E-lens Related Beam Study Xiaofeng Gu Running
- 13-02 Transverse impedance of RHIC M. Blaskiewicz Running 1A
- 12-22 Test of Head-Tail Chrom. measurement using BBQ Vahid Ranjbar Running

# New Proposals for 2017 Run

Align Hadron and Electron Beames	I. Pinayev	
Commissioning of IR Diagnostics	I. Pinayev	Proposed
Reach Full Power Electron Beam	I. Pinayev	Proposed
CeC System Fault Studies	I. Pinayev	Proposed
Propagate Electron Beam to High Power Dump	I. Pinayev	Proposed
Precision decoupling	Blaskiewicz	Proposed
Fighting instability at low energy by modulating chromaticity		Chuyu Liu
polarization response to changes in intrinsic resonance configuration		Vahid Ranjbar
Polarization Lifetime response to Intrinsic Resonance/Emittance		Vahid Ranjbar
Polarization Lifetime response	Vahid Ranjbar	Proposed